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1   Proceedings of the 38th conference on Winter simulation
L. Felipe Perrone, Barry G. Lawson, Jason Liu, Frederick P. Wieland, David Nicol, Richard Fujimoto
December 2006 proceeding
Publisher: Winter Simulation Conference
Additional Information: full citation, abstract

Bibliometrics: Downloads (6 Weeks): n/a,   Downloads (12 Months): n/a,   Citation Count: 0

The Winter Simulation Conference (WSC) is recognized as the premiere international conference for simulation professionals in discrete and combined discrete-continuous simulation; WSC is always located in stimulating locations, in 2006 we are delighted ...

2   Proceedings of the 35th conference on Winter simulation: driving innovation: driving innovation
David Ferrin, Douglas J. Morrice
December 2003 proceeding
Publisher: Winter Simulation Conference
Additional Information: full citation, abstract

Bibliometrics: Downloads (6 Weeks): n/a,   Downloads (12 Months): n/a,   Citation Count: 0

The 2003 Winter Simulation Conference (WSC) continues a thirty-six year tradition as the premier event in discrete-event and combined discrete-continuous simulation. The conference theme, Driving Innovation, invites you to push the boundaries and find ...

3   Tutorial on agent-based modeling and simulation
Charles M. Macal, Michael J. North
December 2005 WSC '05: Proceedings of the 37th conference on Winter simulation
Publisher: Winter Simulation Conference
Full text available: 📄 pdf(1.35 MB)   Additional Information: full citation, abstract, references, cited by

Bibliometrics: Downloads (6 Weeks): 48,   Downloads (12 Months): 514,   Citation Count: 2

Agent-based modeling and simulation (ABMS) is a new approach to modeling systems comprised of autonomous, interacting agents. ABMS promises to have far-reaching effects on the way that businesses use computers to support decision-making and

researchers ...
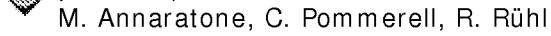
4 Interprocessor communication speed and performance in distributed-memory parallel processors
M. Annaratone, C. Pommerell, R. Rühl
June 1989 ACM SIGARCH Computer Architecture News, Volume 17 Issue 3
Publisher: ACM

Full text available: pdf(1.27 MB)   Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 3, Downloads (12 Months): 22, Citation Count: 9

We have simulated several numerical and non-numerical algorithms on five distributed-memory parallel processors (DMPPs). All five DMPPs have the same topology (a torus), and the same number of nodes. The architectures differ only in the communication ...

5 DDDAS approaches to wildland fire modeling and contaminant tracking
Craig C. Douglas, Robert A. Lodder, Richard E. Ewing, Yalchin Efendiev, Guan Qin, Janice Coen, Mauricio Kritz, Jonathan D. Beezley, Jan Mandel, Mohamed Iskandarani, Anthony Vodacek, Gundolf Haase
December 2006 WSC '06: Proceedings of the 38th conference on Winter simulation
Publisher: Winter Simulation Conference

Full text available: pdf(203.65 KB) Additional Information: full citation, abstract, references

Bibliometrics: Downloads (6 Weeks): 1, Downloads (12 Months): 40, Citation Count: 0

We report on two ongoing efforts to build Dynamic Data Driven Application Systems (DDDAS) for (1) short-range forecasting of weather and wildfire behavior from real time weather data, images, and sensor streams, and (2) contaminant identification and ...

6 A multimedia workflow-based collaborative engineering environment for oil & gas industry
Ismael H. F. Santos, Martin Göbel, Alberto B. Raposo, Marcelo Gattass
June 2004 VRCAI '04: Proceedings of the 2004 ACM SIGGRAPH international conference on Virtual Reality continuum and its applications in industry
Publisher: ACM

Full text available: pdf(293.97 KB) Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 6, Downloads (12 Months): 81, Citation Count: 0

In this paper we discuss the scenario of Petroleum Engineering projects of Petrobras, a large Brazilian governmental oil & gas company. Based on this scenario, we propose a set of application requirements and system architecture to guide the construction ...

Keywords: collaborative engineering, collaborative virtual environments, workflow systems

7 Interprocessor communication speed and performance in distributed-memory parallel processors
M. Annaratone, C. Pommerell, R. Rühl

April 1989 ISCA '89: Proceedings of the 16th annual international symposium on
Computer architecture
Publisher: ACM

Full text available: pdf(1.27 MB)   Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 3, Downloads (12 Months): 22, Citation Count: 9

We have simulated several numerical and non-numerical algorithms on five distributed-memory parallel processors (DMPPs). All five DMPPs have the same topology (a torus), and the same number of nodes. The architectures differ only in the communication ...

8   Demonstration of grid-enabled ensemble Kalman Filter data assimilation methodology for reservoir characterization
Ravi Vadapalli, Ping Luo, Taesung Kim, Ajitabh Kumar, Shameem Siddiqui
January 2008 MG '08: Proceedings of the 15th ACM Mardi Gras conference: From
lightweight mash-ups to lambda grids: Understanding the spectrum of
distributed computing requirements, applications, tools, infrastructures,
interoperability, and the incremental adoption of key capabilities
Publisher: ACM

Full text available: pdf(337.36 KB) Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 27, Downloads (12 Months): 74, Citation Count: 0

Ensemble Kalman filter data assimilation methodology is a popular approach for hydrocarbon reservoir simulations in energy exploration. In this approach, an ensemble of geological models and production data of oil fields is used to forecast the dynamic ...

Keywords: EnKF, GridWay, TIGRE, energy exploration, reservoir modeling

9   Parallel interval-Newton using message passing: dynamic load balancing strategies
Chao-Yang Gau, Mark A. Stadtherr
November 2001 Supercomputing '01: Proceedings of the 2001 ACM/IEEE conference on
Supercomputing (CDROM)
Publisher: ACM

Full text available: pdf(296.07 KB) Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 0, Downloads (12 Months): 36, Citation Count: 0

Branch-and-prune and branch-and-bound techniques are commonly used for intelligent search in finding all solutions, or the optimal solution, within a space of interest. The corresponding binary tree structure provides a natural parallelism allowing concurrent ...

Keywords: branch-and-bound, branch-and-prune, global optimization, interval analysis, nonlinear equations, parallel computing

10 Companion to the 22nd ACM SIGPLAN conference on Object oriented programming systems and applications companion
Richard P. Gabriel, David F. Bacon, Cristina Videira Lopes, Guy L. Steele, Jr.
October 2007 proceeding
Publisher: ACM
Additional Information: full citation, abstract

In conjunction with the program committee, it is my pleasure to present to you the research papers for the 2007 Conference on Object-Oriented Programming Systems, Languages, and Applications.After more than twenty years, ooPSLA remains a dynamic force ...

11 ACM SIGEVOlution: Volume 2 Issue 1

April 2007 issue　Volume 2 Issue 1
Publisher: ACM

Additional Information: full citation, index terms

12 Issues in designing a compilation framework for macroprogrammed networked sensor systems

Animesh Pathak, Viktor K. Prasann
May 2006 InterSense '06: Proceedings of the first international conference on Integrated internet ad hoc and sensor networks
Publisher: ACM

Full text available: pdf(125.00 KB)　Additional Information: full citation, abstract, references, index terms

There is growing interest in the networked sensing community in the technique of *macroprogramming*, where the end-user can design a system using a high level description without worrying about the node-level details. Since the burden of customizing ...

13 SuperLU_DIST: A scalable distributed-memory sparse direct solver for unsymmetric linear systems

Xiaoye S. Li, James W. Demmel
June 2003 ACM Transactions on Mathematical Software (TOMS),　Volume 29 Issue 2
Publisher: ACM

Full text available: pdf(659.03 KB)　Additional Information: full citation, abstract, references, cited by, index terms

We present the main algorithmic features in the software package SuperLU_DIST, a distributed-memory sparse direct solver for large sets of linear equations. We give in detail our parallelization strategies, with a focus on scalability issues, and demonstrate ...

Keywords: Sparse direct solver, distributed-memory computers, parallelism, scalability, supernodal factorization

14 Proceedings of the 36th SIGCSE technical symposium on Computer science education

Wanda Dann, Tom Naps, Paul Tymann, Doug Baldwin

February 2005 proceeding

Publisher: ACM

Additional Information: full citation, abstract

Bibliometrics: Downloads (6 Weeks): n/a,   Downloads (12 Months): n/a,   Citation Count: 0

Welcome to St. Louis for the 36th year of the SIGCSE Technical Symposium on Computer Science Education. We are excited about SIGCSE 2005 and we hope you have as much fun as we have had in planning this event. There is much to see and do with a record ...

15 Proceedings of the 44th annual conference on Design automation

Steven P. Levitan

June 2007 proceeding

Publisher: ACM

Additional Information: full citation, abstract

Bibliometrics: Downloads (6 Weeks): n/a,   Downloads (12 Months): n/a,   Citation Count: 0

Welcome to San Diego and the 44th Design Automation Conference! San Diego is an excellent venue for DAC, with its proximity to many high-tech companies, its beautiful location in southern California, and a wide variety of activities and sights. For those ...

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